AST Gruppe
Angewandte System Technik

AE 703
Mobile Display

Applications

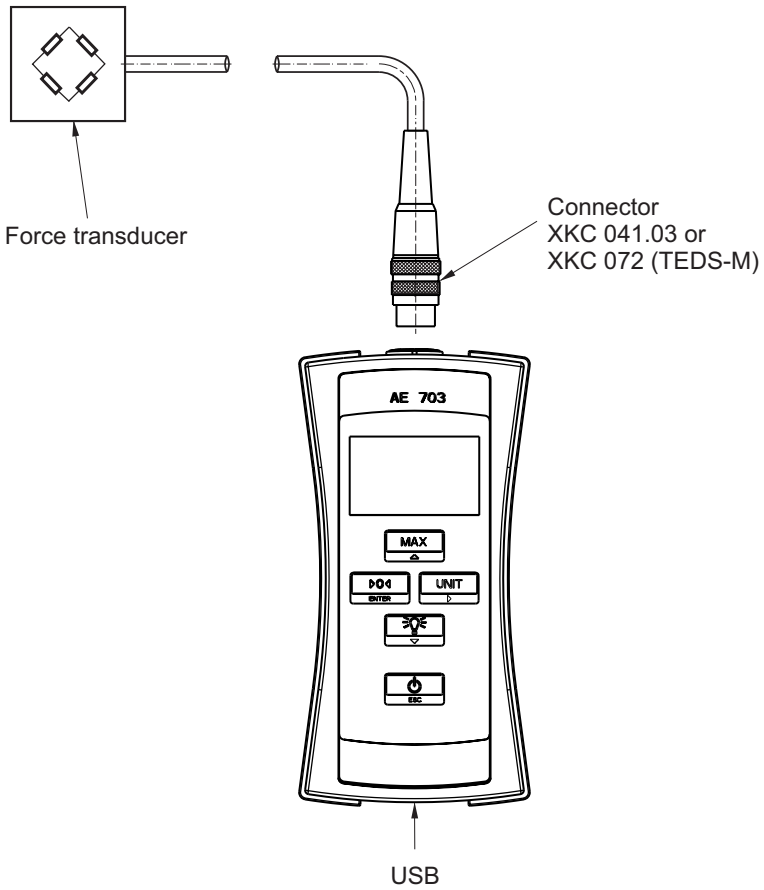
- Mobile display for force transducers
- Measuring systems



Features

- Rigid versatile handheld instrument
- Minimal- and maximal value display
- 16 programmable measurement range
- Measuring rate up to 1600 value/ s
- Multiple force transducers connected
- 0.01 % accuracy class
- USB 2.0- interface
- Sensor detection of TEDS-M

Dimensions/ Connections



Specification

Accuracy Class	**%**	0.01
Signal Input		For up to 2 transducers with strain gauge full bridges connected
Input signal range (+Si/-Si) Input impedance range of strain gauge bridge Excitation voltage (+Ex/-Ex)	mV/V Ω VDC	± 0.3 ... 5 > 150 (2 parallel strain gauge full bridges/ 350Ω) up to 2000 5.0
Error by 2mV/V		
Relative linearity error Noise (at measuring rate) Temperature effect on zero signal	% % %/10K	0.0015 0.002 (6.25Hz) ... 0.04 (1600Hz) 0.002
Display		5-digit LCD graphik display, 128x64 pixel, illuminated
Character height Display range Display additional modes Display rate Scaling points for linearization Internal resolution at 2mV/V Measuring rate (average value) Measured value transmission via USB	mm pieces 1/s 	14 -99999 up to 99999 Meas/min/max.value, overload, various units, charge of battery 3 up to 4 22 Bit 6.25 ... 1600 max. 1400 values/s with software ASTAS
TEDS-M		according to IEEE 1451.4
Interface Supported templates		Mixed-Mode interface, class 2 basic, bridge
Power Supply		
Supply voltage Operating time with batteries	VDC h	3.0 ... 4.8 (3 accumulators or primary cells AA) or powering via USB-port approx. 40
Environmental Conditions		
Operating temperature range Storage temperature range	°C °C	-10 ... +50 -20 ... +70
Construction		
USB - interface Dimensions: (W x H x D) Weight without batteries Force transducer connector Environmental protection (EN 60529)	 mm g 	Mini-USB-B connector, 5 pin 82.1 x 161.7 x 53.8 240 6-pin round connector IP 54 - in use, force transducer connected, USB-port closed

Order Example

Type Code	Description
AE 703	Mobile display, incl. USB-cable, CD-ROM with users manual and ASTAS® PC-software

Options

	Type Code	Description
Case	XKM 270.01	Storage case for AE 703, force transducer and accessories, incl. 3 batteries, USB-cable, screwdriver for battery compartment
Plug and cable	XKC 041.03	6 pin round connector on force transducer suitable for AE 703 (IP 67)
	XKC 072	6-pin connector (TEDS-M) mounted and adjusted (only in conjunction with Master-force sensors)
	XKC 107	Charger for 1-4 accus (without accu)
	Accu - AA	Accu AA, NiMH be ordered separately
	XKC 109	USB power supply unit
Adjustement/Scaling	XKE 703	Adjustment/ scaling (see also calibration)